BROUKAL, J., MUDr. CSc.

Some transportation problems in medical institutions. Cesk. zdrav. 10 no.10:522-531 '62.

1. Vyzkumny ustav organizace zdravotnictvi v Praze.
(HOSPITAL ADMINISTRATION) (TRANSPORT OF WOUNDED)

STEJSKALOVA, M.; BROUKAL, J.

Method of sterilization in health institutions. Analysis of the quality of used sterilized material. Cesk. hyg. 9 no.6:357-366 Jl.64.

1. Hygienicka a epidemiologicka stanice NV [Narodniho vyboru], Praha a Vyzkumny ustaw organizace zdravotnictwi, Praha.

BROUKAL, J., MUDr., CSc.

On the problem of centralization of operating rooms. Cesk. zdrav. 11 no.9:409-418 S '63.

1. Vyzkumny ustav organizace zdravotnictvi v Praze. (OPERATING ROOMS) (ANESTHESIA) (RESUSCITATION) (STERILIZATION)

TAT STOKE BY CAA

COLUMNATIONA, J; BROUKAL, J.

1. Uggenic and Taiderielegical Station Ht (Tygichiche a epiderielegicke ntantee EV). Frague: 1. Desearch Institute of Sculth Organization (Vyzkumy ustav organization circustation).

Frague, Legicocleverates lygiens, 30 6, 1,67, 30/-366

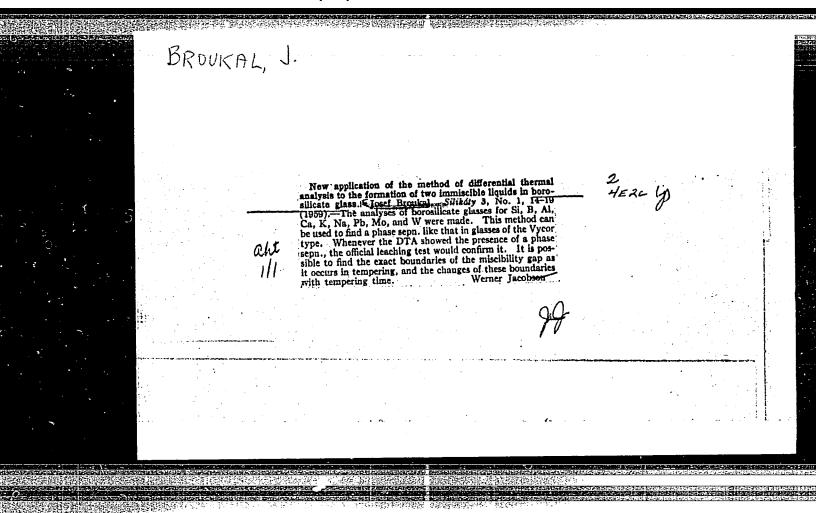
"The lether of Bringing, About Ctorillmenton in Coast: Totablickmente."

OVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307020016-2"

BROUKAL, J., MUDr, CSc.

Map of the network of health establishments. Cesk, zdrav, 12 no.7/8: 379-385 Ag :64.

1. Vyzkumny ustav organizace zdravotnictvi v Prace.



G/005/62/000/012/002/002 D029/D109

AUTHOR:

Broukal, Josef

TITLE:

Experiments concerning special glasses (glass solders) used

in vacuum electronics

PERIODICAL:

Silikat Technik, no. 12, 1962, 428 - 433

TEXT: This article was the subject of a lecture held at the meeting "Technical Glasstreatment", arranged by the section "Chemical Engineering of the KDT, on 31 Aug 1962 in Ilmonaus; In the system PbO-B₂O₃-ZnO there exists a group of glass solders which do not crystallize even after repeated fusing. The group is defined by the following compositions (in weight %): 60% PbO, 35% B₂O₃, 5% ZnO; 85% PbO, 10% B₂O₃, 5% ZnO; and 77.5% PbO, 10% B₂O₃, 12.5% ZnO. At a constant ZnO content and with 60 -90% PbO, the heat dilation coefficient increases by approximately 15·10⁻⁷ at an increase of 10% PbO in the range of 20 - 300°C, and the dilatometric deformation point Mg decreases by 50 - 70 degr. The soldering temperature decreases with increasing PbO content and decreasing B₂O₃ content at a constant (5%) ZnO content. Constant (70%) PbO, increasing ZnO Card 1/3

Experiments concerning

G/005/62/000/012/002/002 D029/D109

and decreasing B₂O₃ contents result in a lowered soldering temperature. Constant B₂O₃ (15,3), increasing PbO and decreasing ZnO contents result likewise in a lowered soldering temperature. Replacing PbO by B₂O₃ in lead-borate glasses decreases the heat dilatation coefficient and increases the softening point. This can thus be explained: a reduction of PbO reduces also the oxygen ratio R, i.e. it increases the number of connections to each BO₃ or BO₄ group. The chemical resistance is highest at 50 mol/3 B₂O₃. An addition of fluorides is not recommended since they have no great effect as fusing accelerator and increase the devitrification and reduction inclination and the dilatation of glass solders. Glass solders of the composition 75 - 85% PbO, 10 - 15% ZnO, 5 - 15% B₂O₃ devitrified during a thermic treatment at a temperature of over 400°C. With increasing ZnO (replacing B₂O₃) at a constant (75%) PbO content, the crystallization temperature is shifted to lower values. An increasing PbO content (replacing B₂O₃) at a constant ZnO (10%) content, decreases the crystallization temperature. An increasing PbO content (replacing ZnO) at a constant, reduces essentially the softening temperature of the solder and the crystallization

Card 2/3

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Experiments concerning

G/005/62/000/012/002/002 D029/D109

temperature as well as the softening temperature of the re-crystallized solder glass. Examinations concerning thermically devitrifyable glass

ASSOCIATION: Staatliches Glasforschungsinstitut (Government Institute for Gluss Research), Hradec Králové, CSSR

Card 3/3

CECH, Bohuslav; BROUKAL, Josef

Kinetics of molybdenum disilicide sintering with admixture of kaolin and quartz. Silikaty 7 no.3:193-205 '63.

1. Vyzkumny ustav pro praskovou metalurgii (for Cech).

2. Statni vyzkumny ustav sklarsky (for Broukal).

Conference of Glass Industries in Minsk, B.S.S.R. Sklar a keramik 13 no.4:105 Ap 163.

BROUKAL, Jindrich

CZECHOSLOVAKIA

MD

Research Institute of the Organization of Health Service (Vyzkumny ustav organizace zdravotnictvi), Prague; Director: R. Palec, MD.

Prague, Prakticky Lekar, No. 18, 1962, pp 792-795

"Centralization of Certain Services in Health Installations"

PROUKOVA, V.

*Gemaux, a new decorating technique. P. 86.

SKLAR A KERAMIK. (Ministerstvo lehkeho pruryslu). Praha, Czechoslovakia, Vol. 9, No. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

BROUL, J.

"hO years of mechanical production of vertically drawn plate glass in Czechoslovakia and in other parts of the world." P. 11h.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu). Praha, Czechoslovakia, Vol. 9, No. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

BROUL, J.

A close relation between school and life. p. 237.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu) Praha, Czechoslovakia, Vol. 9, no. 8, Aug. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

BROUL, Julius, inz.

Operational defects of cooling kilns in continuous production of cast glass. Zklar a keramik12 no.8:243-244 Ag 162.

1. Vyrobni hospodarska jednotka Ploche sklo, Teplice.

BROUL, Julius, inm.

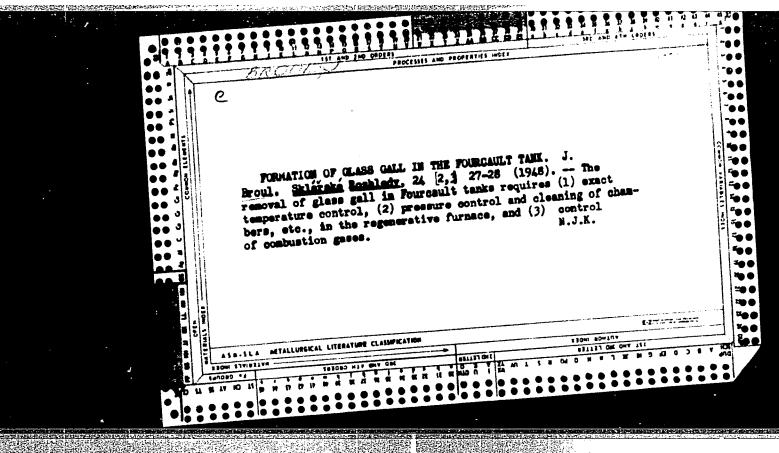
Progressive trends in drawn plate glass technology. Sklar a keramik 14 no.4:116-118 Ap '64.

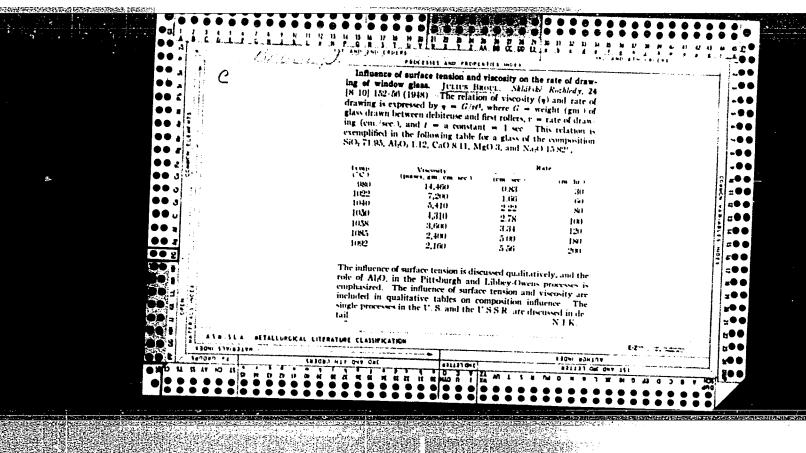
1. Ploche sklo National Enterprise, Teplice.

BROUL, Julius, inz.

Manufacture of patterned glass casting cylinders. Sklar a keramik 14 no. 6:172-173 Je '64.

1. Research and Development Institute of Flat Glass of the Ploche sklo National Enterprise.





BROUL, J.

The drain; an important factor in every glass furnace, Pt. 1, p. 97, SKLAR A KERAMIK (Ministerstvo lehkeho prumyslu) Praha, Vol. 4, No. 4, Apr. 1954

SOURCE: East European Accessions List (EFAL) Library of Congress, Vol. 5, No. 12, December 1955

BROUL, J.

The drain, an important factor in every glass furnace. Pt. 2. p. 154.

SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu) Praha, Czechoslovakia Vol. 4, no. 6, June 1954

Praha, Czechoslovakia

East European Accessions List Vol. 5, No. 1

January 1956

BROUL, J.

Assuring operation of glas furnaces using generator gas. p. 254. SKLAR A KERAMIK. (Ministerstvo lehkeho prumyslu) Praha. Vol. 5, no. 11, Nov. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

BROUL, J.

Combustion of generator gas. p. 4

SKLAR A KERAMIK VO

Vol. 6, no. 1, Jan. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

ERCUI, J.

ERCUL, J. Operational defects in the generator station. p. 304.
The For Glass Technical Creative Center. p. 313.

Vol. 6, No. 12, Dec. 1956. SYLAR A FERALIF. TECHNOICGY Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

BROUL, J.

Coal economy and premium system of employees at generator stations. p.132. (Sklar A Keramik, Vol. 7, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

HOFRICHTER, Pavel, inz.; BROUL, Jaroslav, inz.

Laboratory investigation of mechanical characteristics of rocks. Geol pruzkum 6 no.8:238-240 Ag '64

1. Higher School of Mining, Ostrava.

BROUL, Julius, inz. (Teplice)

New graduates of the Industrial School in Teplice. Sklar a keramik
14 no.17 322-322 N 164.

ACC NR: AP5026339

SOURCE CODE: CZ/0013/65/000/010/0315/0316

AUTHOR: Broukal, Josef (Engineer; Candidate of sciences)

ORG: none

TITLE: Glass ceramics discussed at glass symposium in Berlin

SOURCE: Sklar a keramik, no. 10, 1965, 315-316

TOPIC TAGS: glass, solder, thermal expansion, glass ceramic, ceramic type glass, photosensitive glass, glass symposium

ABSTRACT: A symposium on glass ceramics was organized and held at the Institute for Applied Silicate Research of the German Academy of Sciences, Berlin, on 22 June 1965. Sixty experts from East Germany, and guests from Austria, Hungary, and Czechoslovakia participated. A general survey of crystalline glass materials, photosensitive glass, and crystalline glass solder was presented by Dr. W. Hainz (Institute for Applied Silicate Research, DAW, Berlin). Dr. Eng. B. Locsei (Eaaki, Budapest) discussed the possibilities for controlled crystallization of glass ceramics and reported that a large number of six to eight oxides can favorably influence the controlled crystallization and improve chemical properties

Cord 1/2

ACC NR AP5026339

when added in small amounts (1%). After reviewing previously published material, Eng. K. Gerth (VEB Jena Glass Works, Schott and Gen., Jena) explained the main differences between the controlled crystallization of photosensitive glass and ceramic-type glass. Graduate physicist W. Skatulla (VEB Jena Glass Works, Schott and Gen., Jena) illustrated methods of evaluating electronmicroscope pictures of crystalline glass materials with slides. Thermal expansion in ceramic glass was discussed by Eng. P. O. Kunth (Institute for Applied Silicate Research DAW, Berlin). Eng. J. Broukal (SVUS, Hradec Kralove) presented a survey on research on crystalline glass solder and the technology of their production. Photoglass ceramic research was reviewed by Chemical engineer G. Solow (Institute for Applied Silicate Research, DAW, Berlin), who disclosed that fine glass webbing with a minimal aperture of 40 \(\omega m \) has been produced by his institute. The basic theory for the creation of photographic pictures in photosensitive glass was presented by Graduate physicist H. Korn (Institute for Applied Silicate Research, DAW, Berlin). The concluding statements were made by Dr. Klaus Kuhne.

SUB CODE: 11, 09/SUBM DATE: 18Nov65/

Card 2/2

BROUL, Julius, inz.

Technical School of the Glass Industry in Weisswasser. Sklar a keramik 15 no.2:54-55 F '65.

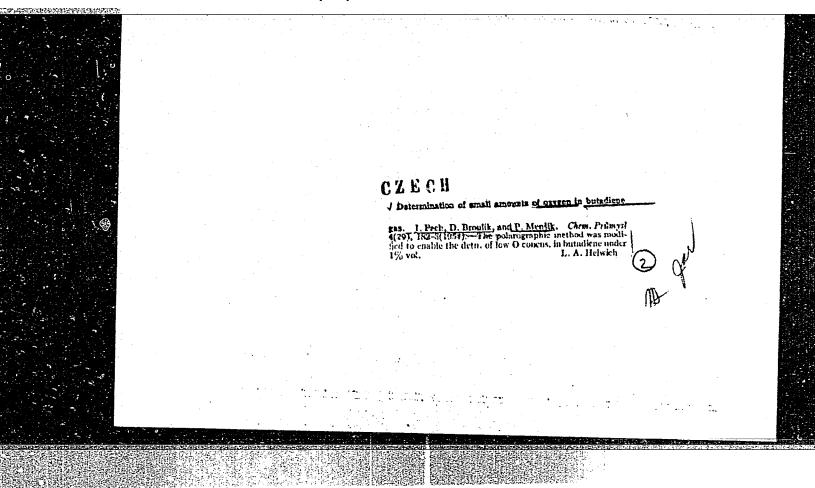
BROULIK, B.

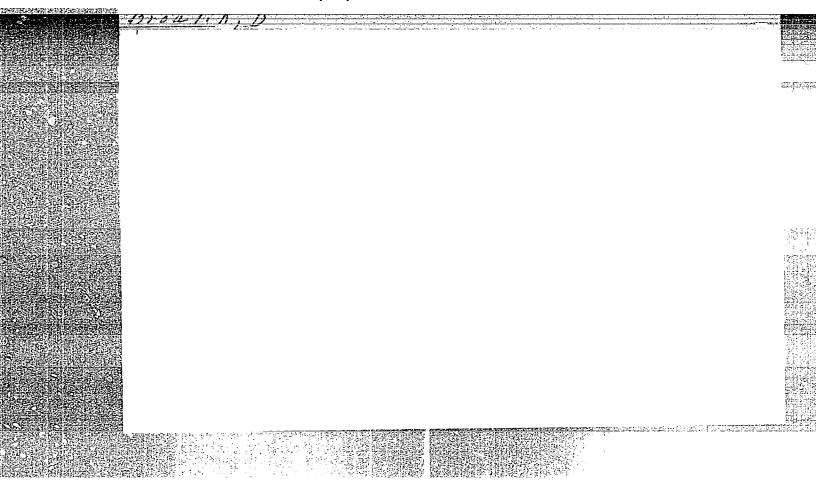
RB 63 semiautomatic turret lathe. p.333.

STROJIRFNSKA VYROBA. Praha, Czechoslovakia. Vol. 7, no. 8, August, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

Uncl.





"The Institute for the Mechanization of Mining helps our mines."
Uhli, Praha, Vol 3, No 9, Sept. 1953, p. 226

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

"New people, new methods in surface mines." Uhli, Praha, Vol 3, No 9, Sept. 1953, p. 251

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

BROULIK, F.

Institute of Mine Mechanization, its purpose and function, p. 245, UHLI (Ministerstvo paliv a energetiky) Praha, Vol. 5, No. 7, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 195.5

NEUWIRT, J.; POKORNY, Zd.; BROULIK, P.; SULC, K.

Effect of ionizing radiations on proteins in radio-sensitive tissues. Acta univ. carol. [med.] Suppl. 14:89-94 '61.

l. Ustav pro vseobecnou patologii fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. J. Hepner. (RADIATION INJURY exper) (PROTEINS metab)

CZECHOSLOVAKIA

TRAVNICEK, T., NEUWIRT, J., BOROVA, J., BROULIK, P., TABORSKY, J; Institute of Pathological Physiology, Faculty of General Medicine, Charles University (Ustav Patologicke Fysiologie Felv. Vseob. Lek. KU) Prague.

"Changes in Protoins of Blood Plasma During Loss of Blood in Rats."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 119-120

Abstract: Experiments on 91 male rats indicated that the level of total globulins decreases proportionately during the loss of blood and even 90 minutes after its end the normal state is not fully established. Albumin level does not decrease as rapidly as that of globulins and after 90 minutes tends to reach normal levels if the loss of blood did not exceed the survival level 1 Figure, 4 Western, 1 Czech reference. Submitted at "16 Day of Physiology" at Kosice, 28 Sep 65.

7/7

CZECHOSLOVAKIA

PACOVSKY, V.; KOMARKOVA, A.; BROULIK, P.; HRBKA, J.; 3rd Internal Clinic, Faculty of General Medicine, Charles University (III. Interni Klinika Fak. Vseob. Lak. KU), Prague, Head (Prednosta) Member of Academy J. CHARVAT; Central Biochemical Labo-ratories, Faculty Hospital, Krajsky Institute of National Health (Ustradni Biochemicke Laboratore Fakultni Nemocnice KUNZ), Prague, Head (Vedouci) Dr A. KOMARKOVA.

"Acquired Insensitivity of Renal Tubulus to the Exogenous Parahormone in Primary Hyperparathyroidism. A New Test in Differential Diagnosis of the Hyperfunction of the Accessible Corpuscles."

Prague, Casopis Lekaru Ceskych, Vol 105, No 26, 24 Jun 66, pp 704 - 706

Abstract: Renal tubulus in primary hyperparathyroidism is constantly subjected to increased amounts of phosphate resorption (TPR) and Im of phosphates is reduced, and there is no response to administration of exogenous parahormone. In chronic pyelonephritis response to exogenous parathormone reduces the TPR and Tm % of phosphates; the response in hypercal-cemia is reduction of TPR%. 2 Tables, 2 Western, 4 Czech refer-1/1

CZECHOSLOVAKIA

PACOVSKY, V.; KOMARKOVA, A.; DUBOVSKY, J.; HRBA, J.; BROULIK, P.; 3rd Internal Clinic, Faculty of General Medicine, Charles University (III. Interni Klinika Fakulty Vseobecneho Lekarstvi KU), Prague, Head (Prednosta) Member of Academy J. CHARVAT; Central Biochemical Laboratories, Faculty Hospital Krajsky Institute of National Health (Ustredni Biochemicke Laboratore Fakultni Nemocnice KUNZ), Prague, Head (Prednosta) Dr A. KOMARKOVA.

"Pseudohypoparathyroidism - A Primary Defect of the Renal Tubule."

Prague, Casopis Lekaru Ceskych, Vol 105, No 34, 26 Aug 66, pp 922 - 924

Abstract (Authors' English summary modified 7: Influence of exogenous parathormone on the renal clearance of phosphates and on the urinary excretion of hydroxyproline and citric acid in pseudo-hypoparathyroidism, post-operative hypoparathyroidism, and in healthy controls was investigated. Direct evidence was found proving that the primary defect in pseudohypoparathyroidism is the isolated lack of sensitivity of the tubule to parathormone, while the other target organ - the bone- responds normally. The use of this test in diagnosis is discussed. 1 Figure, 1 Table, 4 West-1/1

Hematology

CZECHOSLOVAKIA UDC 616.61-008.64-036.12:616.155.194

(3)

NAUWIRTOVA, R.; VALEK, A.; TOMASEK, R.; BROULIK, P.; 2nd Internal Clinic, Faculty of General Medicine, Charles University (II. Interni Klinika Fak. Vseob. Lek. KU), Prague, Chief (Prednosta) Prof Dr F. HERLES; Institute of Experimental Pathology Fac. of Gen. Med. Charles University (Ustav Experimentalni Pathologie Fak. Vseob. Lek. KU), Prague, Chief (Prednosta) Prof Dr T. TRAVNICEK.

"Red Cell Formation in Patients after Prolonged Dialysis in Chronic Renal Insufficiency."

Prague, Casopis Lekaru Ceskych, Vol 105, No 51, 16 Dec 66, pp 1393 - 1397

Abstract /Authors' English summary modified 7: Prolonged dialysis helps the formation of red blood cells in patients suffering from renal insufficiency. The reduction in the retention of break-down products of nitrogen metabolism improves erythropoiesis, but the hemolytic effect of erythrocytes is not eliminated. Regeneration of the bone marrow is not intensive enough to improve anemia. When the dialysis with the artificial kidney is satisfectory hemoglobin can be maintained above 9g%. 1

BROULIK, R.

Film and composition type resistors.

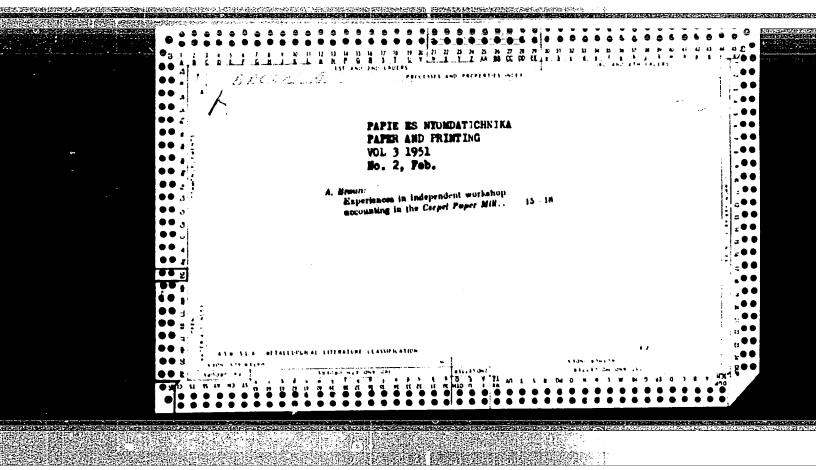
P. 727. (SLABOPROUDY OPZOR) (Praha, Czechoslovakia) Vol. 18, no. 10, Oct. 1957

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 1958

BROULIM, K.

"Technical and Economical Standards of Material." p. 11. "The Railroad Operated by Young Pioneers in the New Hungary." p. 12 (ZELEZNICE, Vol. 3, No. 1, 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.



BROUN, A.G., dotsent

Rare location and unusual etiology of a urinary fistula. Vest. khir. 76 no.11:133-134 '55. (MIRA 9.4)

BROUN, A.G., kand.med.nauk

Complicated pelvic fracture in a 12-year-old child. Khirurgiia 39 no.4:145-146 Ap'63 (MIRA 17:2)

l. Iz Yaroslavskogo oblastnogo gospitalya dlya invalidov Otechestvennoy voyny (nachal'nik G.Ye. Lopatukhin) i kafedry urologii (zav. - zasluzhennyy deyatel' nauki prof. A.P. Frunkin [deceased]) TSentral'nogo instituta usovershenstvovaniya vrachey.

s/079/60/030/05/66/074 B005/B126

AUTHORS:

Kheyfits, L. A., Moldovanskaya, G. I., Broun, E. V.,

Belov, V. N.

TITLE:

Analyses in the Field of Terpenophenols, III. Analyses of

the Condensation Products of Camphene With Phenol

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1716-1721

TEXT: The authors examined the composition and structure of the reaction products that are formed by the condensation of camphene with phenol in the presence of a solution of borontrifluoride in glacial acetic acid. After standing for a long time a crystalline substance separates from the fractions of the vacuum distillation of the resin that is formed by this condensation; in pure state it forms bright, colorless needles, which welt at 1030. This product was isolated for the first time by two of the authors together with E. A. Simanovskaya. It was identified as p-isobornyl phenol. The oil from which this product separates, crystallizes again gradually after the separation of the p-isobornyl phenol and after several months forms a crystalline substance with a melting point of 790. The authors were able to show that

Card 1/3

APPROVED FOR RELEASE: 08/22/2000

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Analyses in the Field of Terpenophenols. III. Analyses of the Condensation Products of Camphene With Phenol S/079/60/030/05/66/074 B005/B126

this compound is o-isobornyl phenol. Since the described separation of both isomeric isobornyl phenols is very difficult, the authors worked out a more suitable and easier method of isolating both compounds in pure state. In aqueous lyes both compounds are insoluble; but in aqueous alcoholic lyes the paraisomers are more readily soluble than the ortho-isomers, which fact can be used for the separation. In order to prove the structure of the two compounds in detail, the authors took infrared absorption spectra of solutions of both isomeric compounds in carbon tetrachloride and in bromoform (Fig. 1). The analysis of the spectra is given in detail. Fig. 2 shows the ultraviolet absorption spectra of both isobornyl phenols. The assumed structure was also confirmed by measuring the dipole moments of the two compounds and their dibromides. It was established that 70% o-isobornyl phenol and 20% p-isobornyl phenol are formed by this condensation. The remaining 10% is probably composed partly of isobornyl acetate, which can form on the acetylation of camphene with acetic acid in the presence of BF. All the reactions carried out are described in detail in the experimental part. R. I. Kursanov is mentioned (Ref. 19). The authors thank A. V. Iogansen for valuable advice concerning the spectroscopic analyses, and Ye. A. Shott-Livova for the

Card 2/3

Analyses in the Field of Terpenophenols. III. Analyses of the Condensation Products of Camphene With Phenol

S/079/60/030/05/66/074 B005/B126

measurement of the dipole moments. There are 2 figures and 24 references, 9 of which are Soviet.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (All-Union Scientific Research Institute for Synthetic and Natural Aromatic Substances)

SUBMITTED:

April 16, 1959

Card 3/3

KHEYFITS, L.A.; SHULOV, L.M.; BROUN, E.V.; BELOV, V.N.

Terpenophenols. Part 4: Products of the condensation of camphene with o=cresol. Zhur. ob. khim. 31 no. 2:672-677 F '61.

(MIRA 14:2)

PRO

L 8209-66 EWT(d)/EWT(1)/EEC(k)-2/T/ LJP(c)

ACC NR: AP5013858

SOURCE CODE: UR/0368/65/002/004/0324/0330

44,55

AUTHOR: Brown, E. V.

06

ORG: none

TITLE: Calculation of random errors in measuring the integral intensities of infra-

red spectra AM

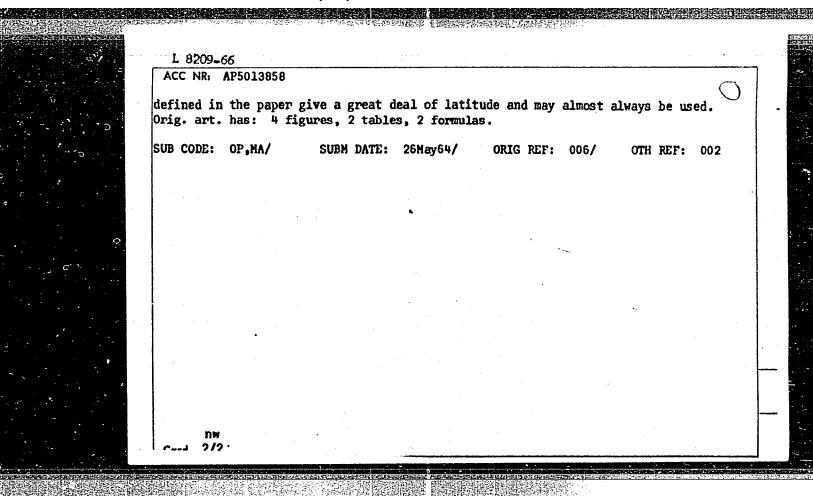
SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 4, 1965, 324-330

TOPIC TAGS: IR spectrum, radiation intensity, error statistics, error minimization

ABSTRACT: The author considers random errors in measurement of the integral intensities of infrared spectra as a function of the method and conditions of measurement. Conditions of optimum extrapolation are studied and optimum conditions for measurement of integral quantities are determined. From the standpoint of minimizing random errors, optimum conditions for measuring integral quantities are spectra with a mean transmittance of $0.30 \le \overline{T} \le 0.70$, which corresponds to transmission in the maximum bands of 0.10. Optimum conditions are determined for measuring the structureless bands of solutions and liquids without extrapolation as well as for extrapolation measurements of intensities. By making measurements under optimum conditions, the accuracy in determining integral intensities can be raised considerably. The optimum conditions

UDC: 535.33

Card 1/2



BROUN, E.V.; IOCANSEII, A.V.

Intensity of the 7 4 band in benzene gas and solutions. Opt. i spektr. 18 no.4:610-613 ap 465. (MIRA 18:8)

IOGANSEN, A.V.; BROUN, E.V.

Structural-group analysis by infrared absorption spectra; determination of methyl groups in saturated hydrocarbons and alkyl benzenes. Trudy Kom, anal.khim. 13:367-379 163.

(MIRA 16:5)

l. Vsesoyuzny pauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

(Hydrocarbons-Absorption spectra) (Methyl group)

(Benzene derivatives)

BROUN, E.V.; IOGANSEN, A.V.

Check for the photometric scale of double-beam infrared apparatus. Zav. lab. 29 no.10:1264-1266 '63. (MIRA 16:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

L 21101-65 MT(m)/EPT(c)/EPR/EPP(j)/T Pc-4/Pr-4/Ps-4 RPL/ASD(a)-5/SSD(c)/AFTD(t)/RATM(a) M/RM
ACCESSION NR: AP5003022 S/0051/65/018/001/0038/0044

AUTHOR: Iogansen, A. V.; Broun, E. V.; Litovchenko, G. D.

TITLE: Intensities of infrared absorption bands in gases and in solutions

SOURCE: Optika i spektroskopiya, v. 18, no. 1, 1965, 38-44

TOPIC TAGS: ir absorption, absorption band, ir intensity, absorption in gas, absorption in solution, absolute intensity

ABSTRACT: The authors first discuss the expected changes in the absolute intensity of absorption (A) in a gas-solution transition, due to the inter-molecular interaction, in a non-polar liquid. Calculations based on dielectric-polarization theories call for the absorption intensity to be 25-50% higher in the solution than in the gas. However, a comparison of the intensities does not bear out this conclusion, and the results indicate that as a rule the absolute intensities for the absorption of strong bands in non-polar solvents coincide with those in the gas. In addition to making the comparison with data by others, the authors also measured the absolute intensities for strong bands in vapors of volatile liquids, using a modified technique which they describe. The results

Cord 1/2

	are compared for carbon tetrachloride, cyclohexane, carbon disulfide, nitrous oxide, chloroform, acetane, nitromethane and methyl formate. Orig. art. has: ASSOCIATION: None	
	SUBMITTED: 09Aug63 ENCL: 00 NR REF SOV: 009 OTHER: 027	SUB CODE: OP
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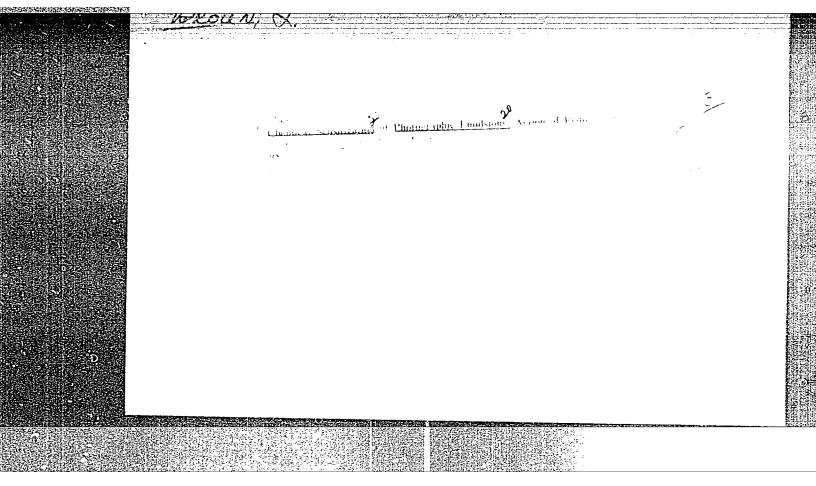
BROUN, K.; DMITRIYEV, K.; YEVTYUKHOV, K.; VOLKOV, Yu., starshiy nauchnyy sotrudnik

Discussing the article "Methods of drawing-up industrial safety rules and their contents." Okh. truda i sots. strakh. no.6:47-54 Je 159.

(MIRA 12:10)

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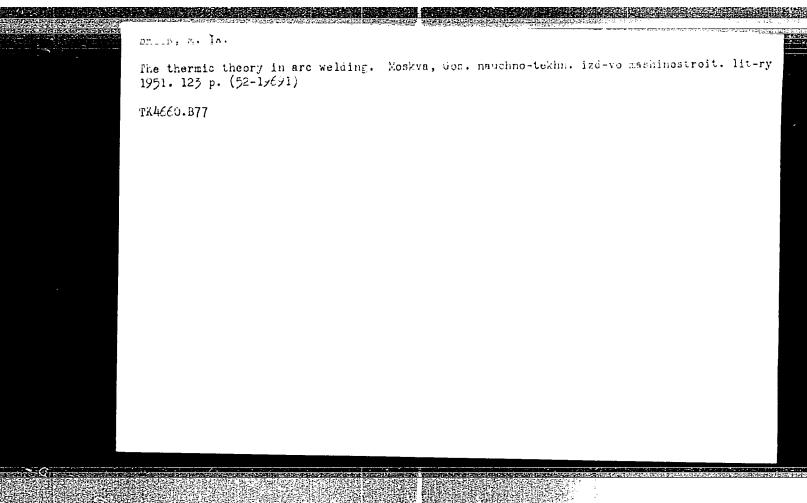
BROUN, II. Va.

USSR/Welding, Arc
Physics

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3 pp

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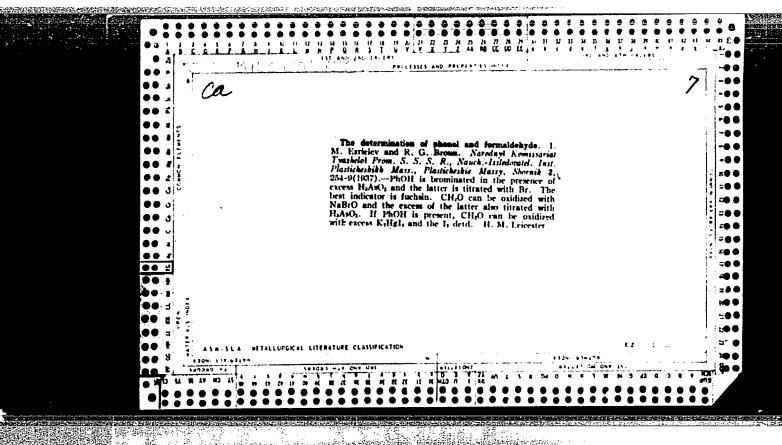
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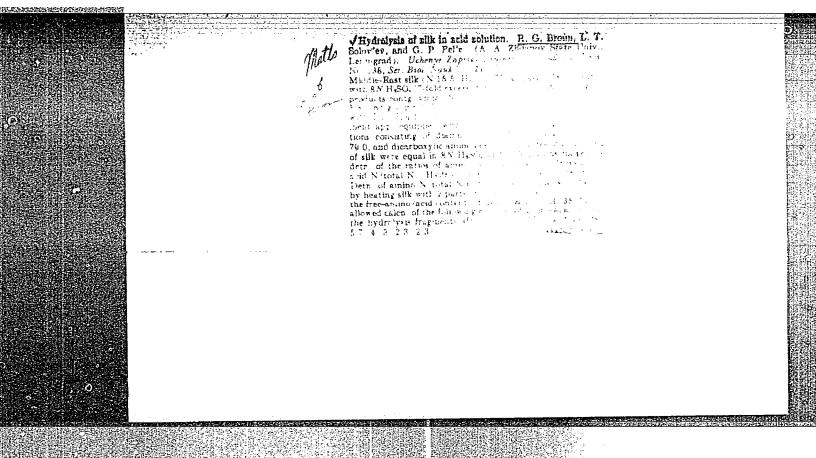
SOLOV YEV, L.T., professor: BROUN, R.G., assistent.

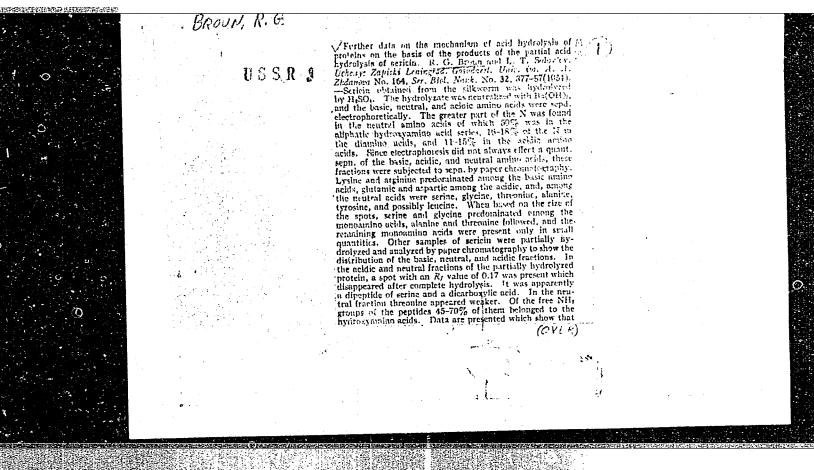
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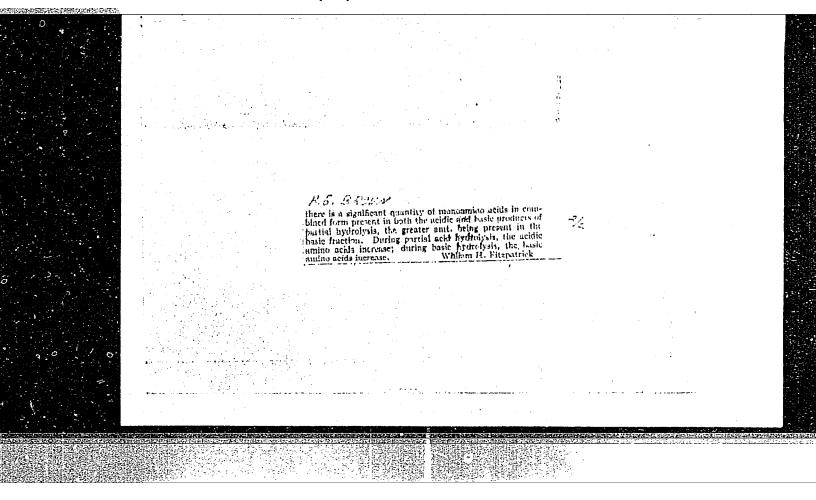
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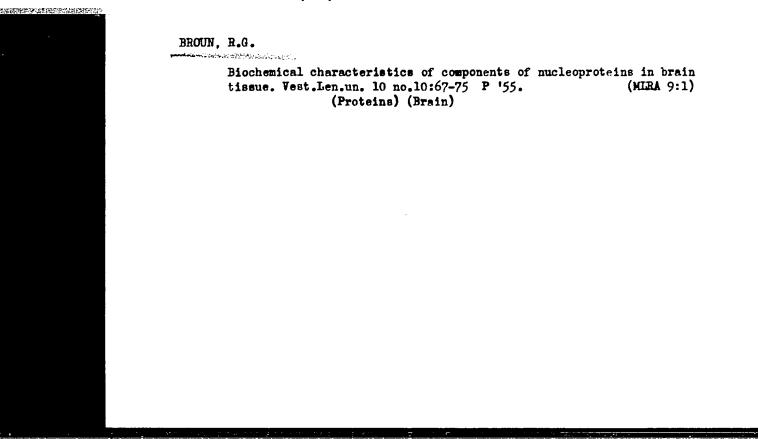
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	· į	of Scie	nces USSR,	Abstracts of R	sports), Leningrad,	1962 88	pp.			
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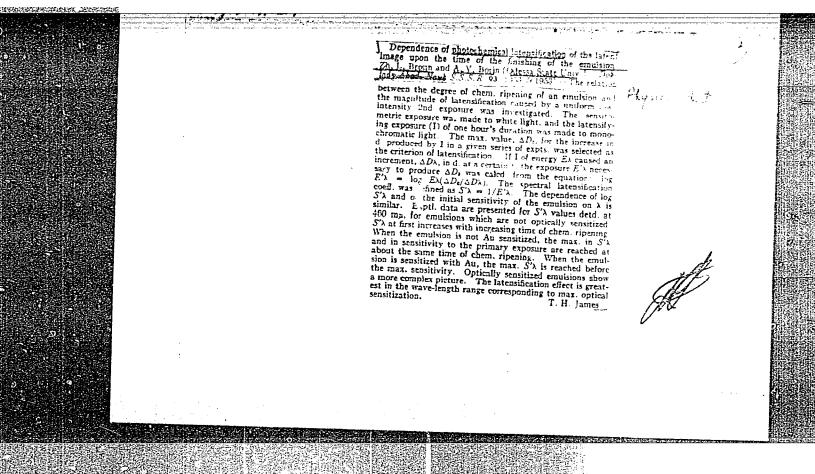
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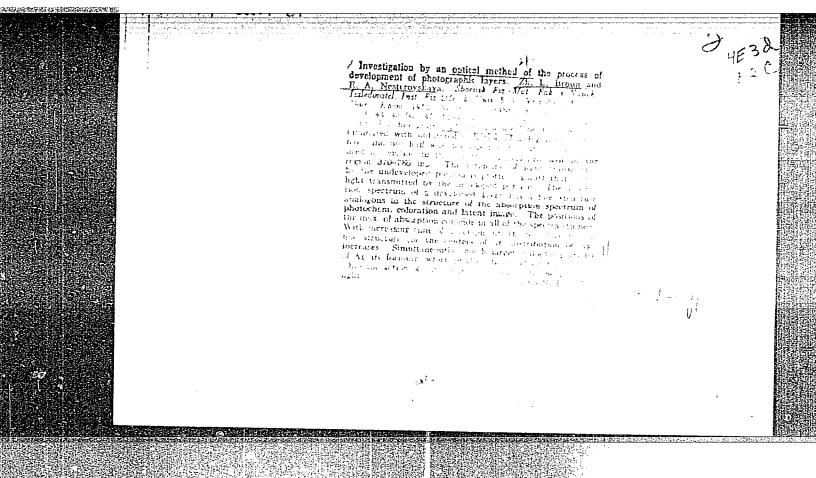
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Spectral distribution of the intensification of the latent photographic image by the

Usp. nauch. fot., no.1, 1951

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DROWN, 211. L.

USSR/ Physics - Spectrophotometry

Card 1/1 Pub. 43 - 28/62

Authors

& Kirillov, Ye. A.; Broun, Zh. L.; and Chibisov, K. V. Title # Employment of the spectrophotometric method for the study of the chemical

sensitization of photo emulsions

Periodical : Izv. AN SSSR. Ser. fiz. 18/6, 689-690, Nov-Dec 1954

Abstract A differential spectrophotometric method, developed by Ye. A. Kirillov was utilized for the first time for the study of centers formed during chemical, reduction and sensitization processes of silver bromide emulsions. The sensitization was accomplished by immersion of the layer in a hydrazine solution. The effects of sensitization and aging were determined spectrophotometrically and then compared photographically for the purpose of determining the light sensitivity of the emulsions. Results obtained are briefly des-

eribed. One USSR reference (1951). Graph.

Institution : The I. I. Mechnikov State University, Physics Inst., Odessa Submitted

CIA-RDP86-00513R000307020016-2" **APPROVED FOR RELEASE: 08/22/2000**

DROUN, Zh.4.

USSR/Chemistry - Physical chemistry

Card 1/1 Pub. 22 - 27/48

Authors : Kirillo

: Kirillov, E. A.; Broun, Zh. L.; and Chibisov, K. V., Memb.Corres. of AN SSSR

Title : Study of the chemical sensitizat

: Study of the chemical sensitization of photo emulsions. Effect of the re-

ducing agent.

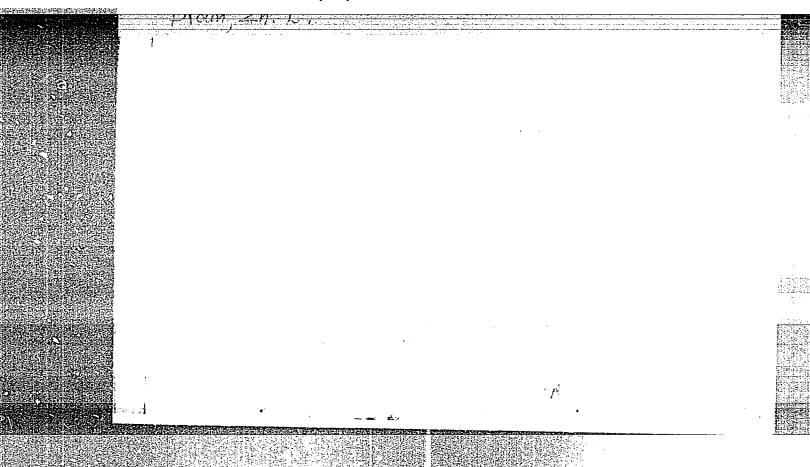
Periodical : Dok. AN SSSR 98/3, 427-430, Sep 21, 1954

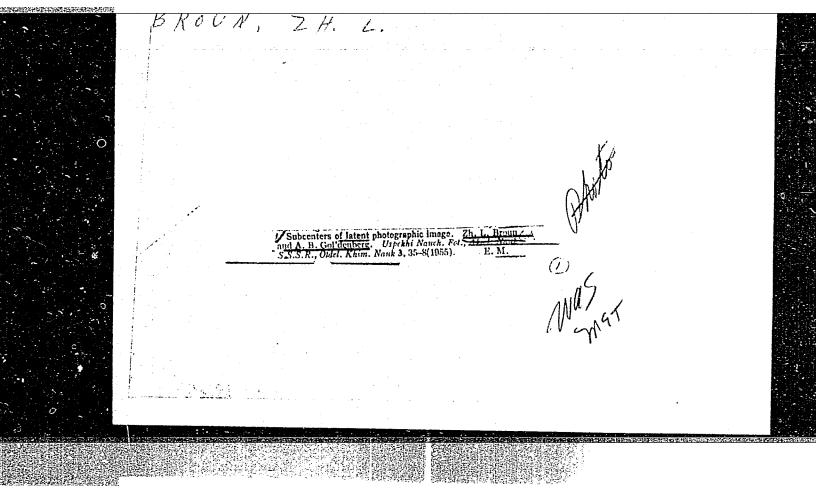
Abstract : Reduction sensitization experiments by treating a Lippmann AgBr emulsion in

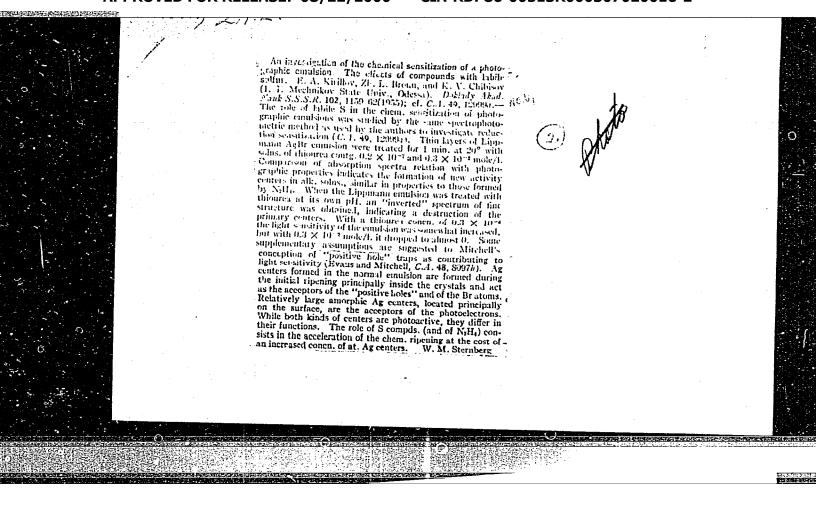
the form of layers applied on glass slides, with a hydrazine (N₂H₄ · H₂SO₄) solution, are described. The absorption spectrum of the emulsion layer, treated in a hydrazine solution, was measured and the results are shown in graph. It was found, on the basis of spectrophotometric measurements, that the physical essence of sensitization with hydrazine consists in the formation of silver centers which increase in number and size during increase in concentration of the solution. Three USSR references (1948-1953). Graphs.

Institution: The I. I. Mechnikov State University, Physics Institute, Odessa

Submitted: May 6, 1954







7/ - W, 2- 1. Category: USSR/Optics - Scientific pt. to graphy

Abs Jour : Ref Zhur - Fazika No L 1957 No 2658'

: Broun, Zh.I., Kizillev, fe.A., Chibisov, K.V.

Author

: Spectrophitometric investigation of Chemical Sensitization of Photographic Inst Title

Emulsions.

Orig Pub : Zh. nauch. i prikl. fetegr. i kinematogr., 1956, 1, No 2, 98-110

Abstract : Chemical ensitization was studied with layers of Lipman emulsion, first processed it a solution of hydrazine, tim chloride, thiourea, or thiozinamine at 20° for 10-30 mixutes. After the layer was washed and dried, the absorption spectrum was determined with a double monochromator from the ratio to the unprecessed layer in the 400-800 mu region, with intervals of 2.5--5 mu (using the Kirillev method). To determine the photographic action of these solutions, the compounds were exposed and developed in a glycin developer. The light sensitivity was determined from the threshold (using the Eder-Hecht wedge). It was established that when the layer of Lipman emulsion is treated with reducers (hydrazine, tin chloride) or with compounds with labile sulphur (thiourea or thyozinamin in alkaline medium) in certain concentrations, one observes a fine spectral structure, coinciding with the structure produced by photochemically-dying silver bromide or by vacuum spattering of silver. An analogous

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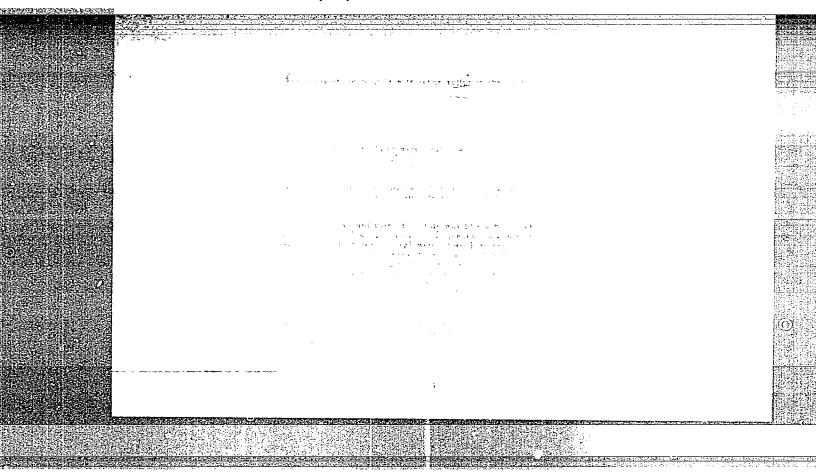
Category : USSR/Optics - Scientific photography

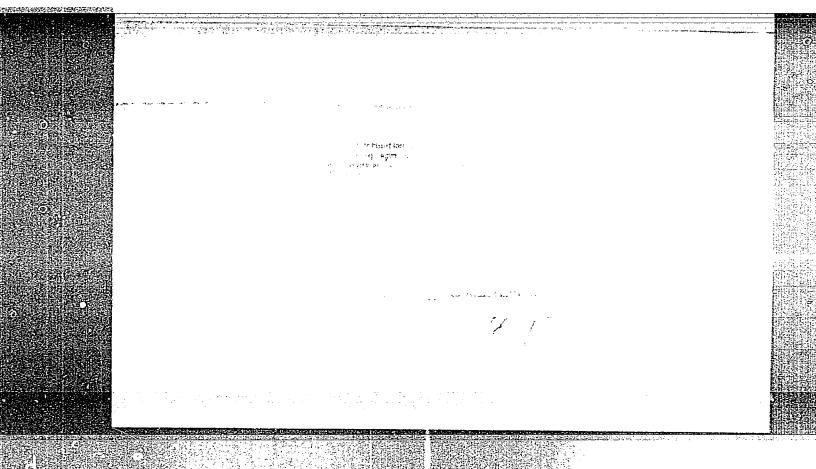
K-11

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 2658

spectral picture is observed upon accelerated "aging" of layers of Lipman emulsion (the compound of the unprocessed emulsion was heated 5--25 hours in a thermostatic bath at 52°), which can be considered as a model of the second maturation. This izduces the authors to assume that silver centers occur also in the second maturation and chemical sensitization of emulsion layers, as they do in photolysis. When sulfide compounds in acid medium act on the layers of the Lipman emulsion one observes a "reversed" spectrum of the fine structure, owing to the destruction of the primary silver centers. The data obtained are in agreement with the deductions by K.V. Chibisov (Ref Zhur Fiz 1954, 4472) concerning the reducing of chemical maturation.

Card : 2/2





AUTHOR: Broun, Zh.L. SOV 77-3-4-2/23

TITLE: A Study of the Primary Centers Formation Process in a Working Emulsion (Issledovaniye protsessa obrazovaniya pervichnykh

tsentrov v real'noy emul'sii)

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, PERIODICAL:

Vol 3, Nr 4, pp 246-250 (USSR)

ABSTRACT:

In order to clarify the mechanism of the growth of centers of photosensitivity, the author undertook a study of the chemical maturation process of a working emulsion, using for this purpose Ye.A. Kirillov's differential spectrophotometric method. Silver bromide emulsion was coated on gelatine, and the plates subjected to different second maturation periods, thus giving samples with varying photosensitivity. Spectral curves were then drawn up using a spectrophotometer. An impurity spectrum curve was also prepared. It was found that photosensitivity reaches a maximum in the short-wave section of the spectrum and then decreases. During the chemical maturation the spectral curves show at various moments a characteristic change. This can be

explained by assuming that a redistribution of metallic silver Card 1/2 takes place in the impurity centers. The author assumes that